

# Miniaturized Camera Head II

## DVI Visual Inspection System

WK3201

Color/RGB Bayer Pattern

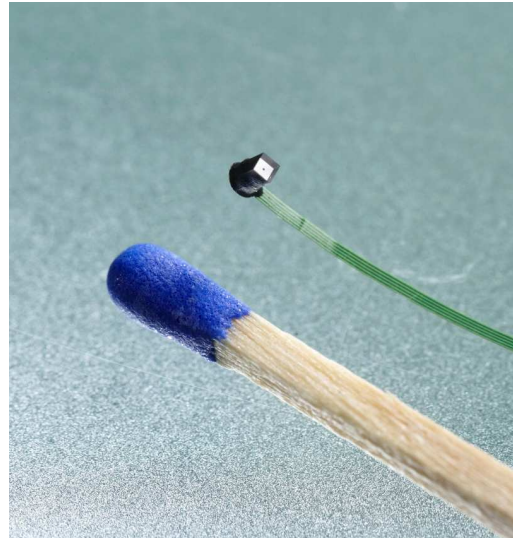


The miniaturized camera head WK3201 for visual inspection systems consists of a highly miniaturized image sensor chip combined with special lenses. Control and data transfer between head and camera electronics (CCU-USB) is realized by LVDS interface via a bonded, highly flexible cable. This system provides the user-friendliness and all possibilities of the DVI camera DK8075 which is proven over years.

### Parameters

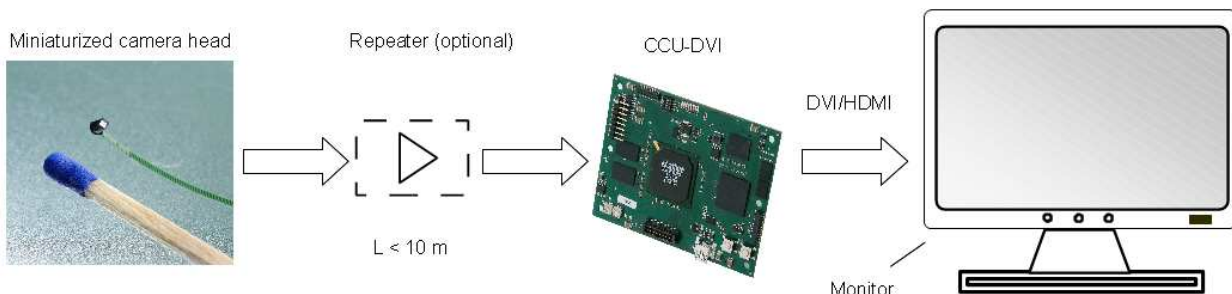
- Sensor CMOS, RGB Bayer pattern
- Resolution 62,5k; 250 × 250 pixel
- Frame rate 44 fps
- Shutter Rolling shutter
- Dynamic range 42 dB
- Sensor size 1,0 × 1,0 × 1,5 mm<sup>3</sup> (incl. lens)
- Lens
  - Viewing angle approx. 80°
  - Aperture 3,8
  - Object distance approx. 1 mm to 50 mm
- Data output 10 Bit digital LVDS
- Power voltage 1,8 V
- Power consumption approx. 5 mW
- Pads 4 (VDD, VSS, data+, data-)
- Temperature range +0°C to +70°C
- Cable connection Flex cable, width 700 μm, thickness 65 μm, possible bending radius 100 μm, typical length 0,56 m, maximum length 2,5 m, with repeater until 10 m possible

### Miniaturized Camera Head



### Application Fields

The small size makes the miniaturized camera head well suited to inspection tasks on places extremely difficult to access (e.g. hollow spaces, small diameter bore holes, or overlaps). By an appropriate design the application of the module was extended to medical examinations. We are ready to adapt the camera head to your special tasks and application fields by request.



The WK3201 inspection system is characterized by very short latency periods between image capture and monitor displaying. This property avoids annoying delays during direct object manipulation.

<sup>1</sup> CCU: Camera Control Unit  
Design and specification may change without notice